International	ation No
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A. CLASSII IPC 7	FICATION OF SUBJECT MATTER H04B10/18 H04J14/02		
	b International Patent Classification (IPC) or to both national classific	ation and IPC	
1	SEARCHED cumentation searched (classification system followed by classification)	ion symbols)	
IPC 7	HO4B		
Documentat	ion searched other than minimum documentation to the extent that s	such documents are included in the fields se	arched
Electronic d	ata base consulted during the international search (name of data ba	se and, where practical, search terms used	)
EPO-In	ternal		
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the re-	levant passages	Relevant to claim No.
Х	WO 01 67644 A (SONG YONG WON ;EB PANIZ (US); KHOSRAVANI REZA (US) 13 September 2001 (2001-09-13)	RAHIMI ; WILLNER)	1-5,9, 10, 13-15,33
	abstract page 8, line 6 - line 23 page 14, line 11 - line 20	!	
Y	figure 6		6–8
Y	WO 02 19001 A (YU QIAN ;LEE SANG WILLNER ALAN E (US); YAN LIANSHAI 7 March 2002 (2002-03-07) figure 3		6-8
X	WO 97 10658 A (INTEGRATED OPTICAL COMPONENTS ; DONNELL ADRIAN CHARL) 20 March 1997 (1997-03-20) page 9, line 6 - line 35 figure 4	L ES O (GB))	34
Furt	l her documents are listed in the continuation of box C.	X Patent family members are listed	in annex.
° Special ca	ategories of cited documents :	"T" later document published after the inte	ernational filipo date
consid	ent defining the general state of the art which is not dered to be of particular relevance	or priority date and not in conflict with died to understand the principle or th invention	the application but eory underlying the
filing o		"X" document of particular relevance; the cannot be considered novel or cannot	t be considered to
which citatio	ent which may throw doubts on priority claim(s) or is cited to establish the publication date of another n or other special reason (as specified) ent referring to an oral disclosure, use, exhibition or	involve an inventive step when the do "Y" document of particular relevance; the or cannot be considered to involve an in document is combined with one or mo	claimed invention ventive step when the
other of the or other	ent referring to all oral disclosure, use, exhibition of means means ent published prior to the International filing date but han the priority date claimed	ments, such combination being obvio in the art.  *&' document member of the same patent	us to a person skilled
	actual completion of the international search	Date of mailing of the International se	
2	7 May 2003	13/06/2003	
Name and	mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer	
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo ni, Fax: (+31-70) 340-3016	Ribbe, A	

## Information patent family members

International cation No PC L 02/00664

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0167644	A	13-09-2001	AU WO US	4548801 A 0167644 A1 2001055437 A1	17-09-2001 13-09-2001 27-12-2001
WO 0219001	Α	07-03-2002	AU WO US	9502201 A 0219001 A2 2002075477 A1	13-03-2002 07-03-2002 20-06-2002
WO 9710658	Α	20-03-1997	CA CN EP WO JP	2232159 A1 1202285 A 0850520 A1 9710658 A1 11511619 T	20-03-1997 16-12-1998 01-07-1998 20-03-1997 05-10-1999